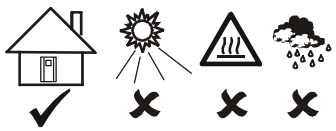
Installation and Operation Manual
Back-UPS® BR800/1100CI-IN

Safety and General Information



This unit is intended for indoor use only.

Do not operate this unit in direct sunlight, in contact with fluids, or where there is excessive dust or humidity.

Environmental factors impact battery life. Elevated ambient temperatures, poor quality utility power, and frequent short duration discharges will shorten battery life.

Connect the Back-UPS power cable directly into a wall outlet. Do not use surge protectors or extension cords.

There are no serviceable parts in the Back-UPS. Do not attempt to open or repair the Back-UPS as this will void the warranty. The battery in this unit is not replaceable.

Battery information

Battery wear is not covered by the limited warranty.

The UPS battery will charge to 90% capacity during the first 6-10 hours while connected to utility power. Do not expect full battery runtime capability during the initial charge time.

To conserve battery life:

- Turn the UPS off when not using the connected computer.
- Turn the UPS off prior to planned power outages.
- If a power outage occurs while a connected computer is in use, save open files and turn off the computer immediately.

The battery will charge while the UPS is switched on or off and is connected to utility power.
Do not turn off the utility power supply to the UPS. The battery will not charge if there is no utility power supply to the UPS.

Back-UPS information

Connect only a computer, monitor and other essential devices to the battery backup outlets.

To avoid unnecessary use of the battery do not connect printers, speakers or lamps to the battery backup outlets.

In regions that experience frequent, power outages the battery may not have sufficient time to recharge between outages. The result will be shortened battery runtime capability. To ensure full battery runtime capability it may be necessary to turn off the UPS and allow the battery to recharge for up to two days before tuning on the UPS. Be sure to leave the UPS connected to utility power during this time.

Specifications

		BR800CI-IN	BR1100CI-IN
Input	Voltage	230 Vac Nominal	
	Frequency	50 Hz ± 3 Hz (default), 60 Hz ± 3 Hz	
	Brownout Transfers	155 Vac Typical	
	Over-voltage Transfer	290 Vac Typical	
Output	UPS Capacity (total outlets)	800 VA, 480 W	1100 VA, 660 W
	Total Amperage (total outlets)	3.4 A (including UPS output)	4.8 A (including UPS output)
	Voltage - On Battery	230 Vrms ± 8% step approximated sine wave	
	Frequency - On Battery	50 Hz ± 1 Hz	
	Transfer Time	6 ms Typical	
Protection and Filtering	AC Surge Protection	Full time, 440 Joules	
	AC Input	Resettable circuit breaker	
Battery	Type	Sealed, maintenance-free, lead acid	
	Average Life	2 - 3 years depending on the number of discharge cycles and environmental temperature	
	Typical Recharge Time	6 to10 hours	
Physical	Net Weight	11 kg (24 lb)	
	Dimensions Length x Width x Height	35 cm x 22 cm x 13 cm 14 in x 9 in x 5 in	
	Operating Temperature	0º C to 40º C (32º F to 104º F)	
	Storage Temperature	–15º C to 45º C (5º F to 113º F)	
	Operating Relative Humidity	0 to 95% non-condensing humidity	
	Operating Elevation	0 to 3000 m (0 to 10,000 ft)	

To order replacement battery cartridge APCRBC113, contact APC Customer Support.
Always recycle used batteries.

Connect Equipment

Battery backup outlets

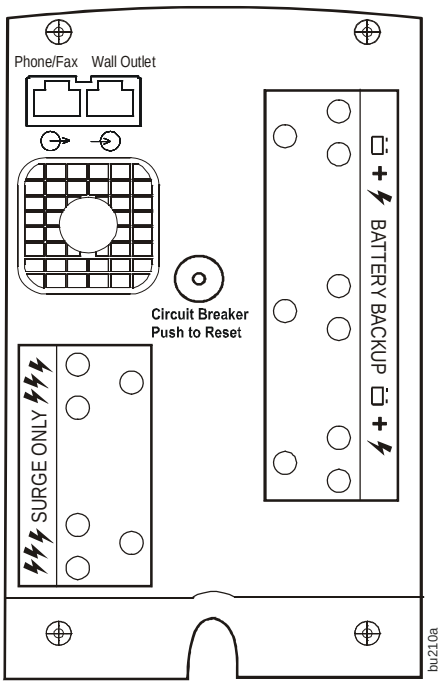
These outlets provide battery backup power to connected equipment for a limited period of time during power outages and voltage power fluctuations.

The Battery Backup outlets provide battery power to connected equipment only when the Back-UPS is turned on.

Connect critical equipment such as desktop computer, computer monitor, modem or other data sensitive devices to these outlets.

Do not connect aquarium equipment, laser printers, paper shredders, sump pumps, or fans to these outlets as the modified sine wave output of the Back-UPS may cause these devices to experience a decrease in performance.

Do not connect surge strips or surge protectors to these outlets.



Surge protection outlets

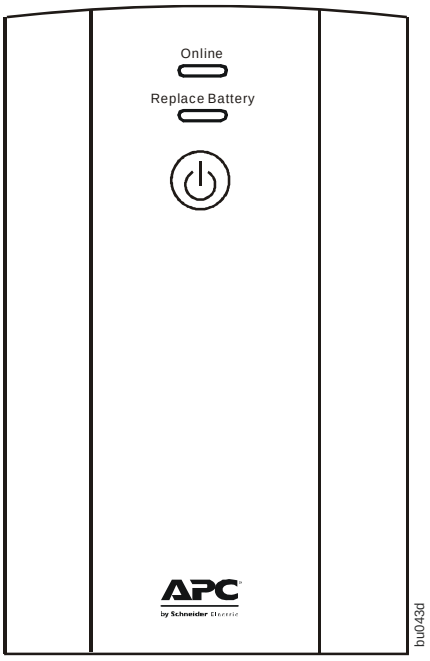
These outlets provide surge protection during a power outage. These outlets will disconnect from utility power during a power outage. Surge Protection outlets do not supply battery backup power to connected equipment.

These outlets provide full-time surge protection, when the unit is turned on or off. Connect a printer, scanner or other devices that do not require battery backup protection.

Operation

Turn on the UPS

Press the POWER ON button located on the front of the UPS. The **Online** LED will illuminate green and a single short beep will be audible to indicate that the UPS is providing protection for connected equipment.



Status indicators

Status	LED Indicator	Audible Indicator On	Audible Indicator Terminates
Power On The UPS is supplying utility power to connected equipment.	The **Power On** LED illuminates green.	None	N/A
On Battery The UPS is supplying battery power to battery backup outlets.	The **On Battery** LED illuminates green. The LED is not illuminated during the beeps.	The UPS beeps 4 times every 30 seconds.	Beeping stops when utility power is restored or the UPS is turned off.
Low Battery Warning The UPS is supplying battery power to the battery backup outlets and the battery has approximately 2 minutes runtime remaining.	The **Power On** LED flashes green once per second.	The UPS emits a beep once per second.	Beeping stops when utility power is restored or the UPS is turned off.
Low Battery Shutdown The UPS is supplying battery power to the battery backup outlets and the battery is near a total discharge state.	None	The UPS beeps once every 4 seconds.	Beeping stops when utility power is restored or the UPS is turned off.
Battery Disconnected • The battery is disconnected. • The battery needs to be charged.	**Replace Battery** LED flashes red. **Replace Battery and Online** LEDs flash alternately green/red.	Constant tone Constant tone	UPS is turned off.
Overload Shutdown While on battery power an overload condition has occurred in one or more of the UPS outlets while the UPS is operating on battery power.	None	Constant tone	Unplug connected equipment one device at a time to eliminate the overload condition. If the condition continues contact APC Customer Support.
Overload Alarm While on utility power the online power exceeds the UPS capacity.	**Online** LED illuminates red.	Constant tone	Alarm stops when equipment power plugs are moved from battery backup outlets to surge protection outlets.
Charger Warning An internal fault has occurred. The UPS continues to provide power to connected equipment.	**Replace Battery** LED flashes red.	The UPS beeps once every 2 seconds.	Contact APC Customer Support.
Charger Fault An internal fault has occurred. The UPS does not provide power to connected equipment.	None	Constant tone	Contact APC Customer Support.

Voltage Sensitivity Adjustment

The UPS detects and reacts to line voltage distortions by transferring to battery backup power to protect connected equipment. In situations where either the UPS or the connected equipment is too sensitive for the input voltage level it is necessary to adjust the transfer voltage setting.

1. Connect the UPS to a wall outlet. The UPS will be in **Standby** mode, no indicators will be illuminated.
2. Press and hold the ON/OFF button for 10 seconds. The **Online/Replace Battery** LED will illuminate alternately green-red, to indicate that the UPS is in **Program** mode.
3. The **Online/Replace Battery** LED will flash either green or red to indicate the current sensitivity level. Refer to the table for an explanation of the transfer voltage sensitivity levels.
4. To select LOW sensitivity, press and hold the ON/OFF button until the LED flashes green.
5. To select MEDIUM sensitivity, press and hold the ON/OFF button until the LED flashes red.
6. To select HIGH sensitivity, press and hold the ON/OFF button until both green and red LEDs flash simultaneously.
7. To exit **Program** mode wait five seconds and all LED indicators will extinguish. **Program** mode is no longer active.

LED Flashes	Sensitivity Setting	Input Voltage Range	Recommended Use
Green	LOW	150 Vac to 290 Vac	Use this setting with equipment that is less sensitive to fluctuations in voltage. Not recommended for computers.
Red	MEDIUM (factory default)	155 Vac to 290 Vac	Use this setting under normal conditions.
Green and red simultaneously	HIGH	160 Vac to 290 Vac	Use this setting when connected equipment is sensitive to voltage and waveform fluctuations.

Troubleshooting

Problem and Possible Cause	Solution
The UPS will not turn on	
The UPS has not been turned on.	Press the POWER ON button.
The UPS is not connected to utility power, there is no utility power available at the wall outlet, or the utility power is experiencing a brownout or over voltage condition.	Make sure the power cord is securely connected to the wall outlet, and that there is utility power available at the wall outlet. Where applicable, check that the wall outlet is switched on. In the event the UPS receives no utility power and the battery is charged, a cold-start can be initiated. Press and hold the POWER ON button until the UPS emits two beeps.
The UPS may require service.	Contact APC Customer Support. Refer to “APC Customer Support India” on page 7 in this manual.
The UPS is on, the Online LED flashes and the unit emits a constant tone	
The UPS may require service.	Contact APC Customer Support. Refer to “APC Customer Support India” on page 7 in this manual.
Connected equipment loses power	
A UPS overload condition has occurred.	Remove all nonessential equipment connected to the outlets. One at a time reconnect equipment to the UPS.
The UPS batteries are completely discharged.	Connect the UPS to utility power and allow the batteries to recharge for eight hours.
The circuit breaker has tripped.	Disconnect non-essential equipment from the UPS. Push the circuit breaker reset button.
Connected equipment does not accept the step-approximated sine waveform from the UPS.	The output waveform is intended for computers and peripheral devices. It is not intended for use with motor driven equipment.
The UPS may require service.	Contact APC Technical Support for more in depth troubleshooting.
The On Battery LED is illuminated and the UPS beeps 4 times every 30 seconds or emits a constant tone	
The UPS is operating on battery power.	The UPS is operating normally on battery power. At this point the user should save all open files, and shutdown the computer. When utility power is restored the battery will recharge.
The Power On LED flashes once every second while the UPS beeps once every second	
The UPS battery has approximately two minutes of remaining runtime.	The UPS battery is near a total discharge state. At this point the user should save all open files, and shutdown the computer. When utility power is restored the battery will recharge.
The UPS has an inadequate battery runtime	
The battery is not fully charged.	Leave the UPS connected to utility power for 10 hours while the battery charges to full capacity. As a battery ages, the runtime capability decreases.

Service

If the unit requires service, do not return it to the dealer. Follow these steps:

1. Review the *Troubleshooting* section of the manual to eliminate common problems.
2. If the problem persists, contact APC Customer Support.
    a. Note the model number and serial number and the date of purchase. The model and serial numbers are located on the rear panel of the unit and are available through the LCD display on select models.
    b. Call APC Customer Support and a technician will attempt to solve the problem over the phone. If this is not possible, the technician will issue a Service Request Number.
    c. If the unit is under warranty, the repairs are free.
3. An Authorised Service Representative will visit the location and try to resolve the issue.

APC Customer Support India

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6/2011